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SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  BY O. BOX 2938  MINNI: APOLIS, MN 55402  (2007 HDERESS2 00000037 10608518  11501 1400,00 DP 3,00 DP 11504  APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION. 12040 Kim 279 312US2 9319  APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION. 12040 Kim 279 312US2 9319  APPLICATION APPARATUS AND METHOD FOR R-WAVE DETECTION WITH DUAL DYNAMIC SENSITIVITIES  APPLICATION NO. STALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE OATE DUE 1000 PREV. PAID ISSUE FEE TOTAL FEE(S) DUE 1000 PREV. PAID ISSUE FEE TOTAL FEE(S) DUE 1000 PREV. PAID ISSUE FEE TOTAL FEE(S) DUE 1000 PREV. PAID ISSUE FEE TOTAL FEE SON TOTAL	ice ice nonneauoi	113.			Note Fee(s	: A certificate of i) Transmittal. This is Each additiona	mailing s certif l paper.	can only be used for cate cannot be used for such as an assignment	r domestic mailings of	the. ine	
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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION.  10/508.518 06/24/2003 Jacko Kim 279.31/2US2 9319  TLE OF INVENTION: APPARATUS AND METHOD FOR R-WAVE DETECTION WITH DUAL DYNAMIC SENSITIVITIES  APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1400 \$300 \$0 \$1700 03/07/200  EXAMINER ART UNIT CLASS-SUBCLASS  LAYNO, CARL HERNANDZ 3766 607-005000  Change of correspondence address or indication of "Fee Address" (37 R. 1.563).  Change of correspondence address for Change of Correspondence Address' indication form PTO/S8/1/22) attached.  "Fee Address' indication for "Fee Address' Indication form PTO/S8/1/22) attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22) attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22) attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22) attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22) attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22) attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22) attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22) attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22 attached.  "Top CADDRESS' indication for "Fee Address' Indication form PTO/S8/1/22 attached.  "Top CADDRESS' indication for "Fee Address' Indication form pto Pto/S8/1/27 (Pto Pto) 1/2 and 1/2 attached.  "Top CADDRESS' indication for "Fee Address' Indication form pto 1/2 attached.  "Top CADDRESS' indication for "Fee Address' Indication form pto 1/2 attached.  "Top CADDRESS' indication for "Fee Address' Indication form pto 1/2 attached.  "Top CADDRESS' indication form pto 1/2 attached.  "Top CADDRESS' indication for Pto 1/2 attached.  "Top CADDRESS' indication for Pto 1/2 attached.  "Top CADDRESS' indication for Pto 1/2 attached.  "Top CADDRESS' indica	HDEMESSE 000	00037 10608518				Krik Soli	s	`	(Depositur's na	nie)	
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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION 10/608.518 06/24/2003 Jacho Kim 279.312US2 9319  TLE OF INVENTION: APPARATUS AND METHOD FOR R-WAVE DETECTION WITH DUAL DYNAMIC SENSITIVITIES  APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1400 \$300 \$0 \$1700 03/07/200  EXAMINER ART UNIT CLASS-SUBCLASS  LAYNO, CARL HERNANDZ 3766 607-005000  Change of correspondence address (or Change of Correspondence Address' indication (or "Fee Address' Indication form 170/58/122) attached. But of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached, the of a Customer Number is required. A more recently attached to recently attached to recently attached to recently attached to recently attached. The parents of a substitute for filling an assignment.  (1) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)  St. Paul, Minnesota  Ab. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  Ab. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  Ab. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  Ab. Payment of Pee(s): (Please first reapply any previously paid issue fee shown above)  Ab. Payment of recently authorized to clarg							March 7, 2007			(Date)	
10/608.518    06/24/2003    Jacho Kinv   279.312US2    9319     TLE OF INVENTION: APPARATUS AND METHOD FOR R-WAVE DETECTION WITH DUAL DYNAMIC SENSITIVITIES	ICATION NO.	FILING DATE		FIRST NAMED INVE	NTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.		
APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1400 \$300 \$0 \$1700 03/07/200  EXAMINER ART UNIT CLASS-SUBCLASS  LAYNO, CARL HERNANDZ 3766 607-005000  Change of correspondence address or indication of "Fee Address" (37 [8] 1.56].  Change of correspondence address of indication for "Fee Address" indication for agent) and the names of up to 2 "WOESSNEY. & Klutter indication for the patent indicated adverse or agents. If no name is listed, no name will be printed.  ANSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been intered address as elf orth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  Cardiac Pacemakers, Inc.  St. Paul, Minnesota  The following fee(s) are submitted:  St. Paul, Minnesota  A check is enclosed.  A check is enclosed.		<u> </u>		Jacho Kim				279.312US2	9319		
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PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filling an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  St. Paul, Minnesota  (case check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government of Fee(s) are submitted:  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  St. Paul, Minnesota  (d) Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  (d) Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  (d) Payment by credit card. Form PTO-2038 is attached.  (E) The Director is hereby authorized to charge the required fee(s), any deficiency, or credit a overpayment, to Deposit Account Number 19-0743 (enclose an extra copy of this overpayment, to Deposit Account Number 19-0743 (enclose an extra copy of this payment of Fee(s): Payment is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).	53). lange of correspor lss form PTO/SB/ ee Address" indie SB/47; Rev 03-02	ndence address (or Chan 122) attached.	age of Correspondence	(1) the names of or agents OR, alto (2) the name of a registered attorned pater.	up to crnation single y or a	3 registered pate vely, e firm (having as agent) and the nan meys or agents. If	nt attorn a memb	era <sup>2</sup> Woessn			
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case check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government of Fee(s): (Please first reapply any previously paid issue fee shown above)    A check is enclosed.   A check is enclosed.   Payment by credit card. Form PTO-2038 is attached.   Payment by credit card. Form PTO-2038 is attached.   The Director is hereby authorized to charge the required fee(s), any deficiency, or credit a overpayment, to Deposit Account Number 19-0743 (enclose an extra copy of this change in Entity Status (from status indicated above)    A check is enclosed.   Payment by credit card. Form PTO-2038 is attached.   The Director is hereby authorized to charge the required fee(s), any deficiency, or credit a overpayment, to Deposit Account Number 19-0743 (enclose an extra copy of this payment)   Payment by credit card. Form PTO-2038 is attached.   Pay				(B) RESIDENCE:	(CITY	and STATE OR	COUN	ΓRY)			
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<ul> <li>☑ Issue Fee</li> <li>☑ A check is enclosed.</li> <li>☑ Publication Fee (No small entity discount permitted)</li> <li>☑ Advance Order - # of Copies 1</li> <li>☑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit a overpayment, to Deposit Account Number 19-0743 (enclose an extra copy of this</li> <li>Change in Entity Status (from status indicated above)</li> <li>☐ D. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.</li> <li>☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).</li> </ul>	cck the appropria	te assignee category or	categories (will not be							nen	
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sterest as shown by the records of the United States Patent and Trademark Office.	Applicant claims	SMALL ENTITY status	s. Sec 37 CFR 1.27.	☐ b. Applicant is a	10 lon	ger claiming SMA	LL EN	TITY status. Sec 37 C	FR 1.27(g)(2).		
Authorized Signature Atern Call Date 3-7-07		ecords of the United State	les Patent and Tradem	ark Office.		Date 3	~ ")	-07			
Typed or printed name		J Kewin B	Parker			Registration	No.	33,024			

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jaeho Kim et al.

Title: APPARATUS AND METHOD FOR R-WAVE DETECTION WITH DUAL DYNAMIC

**SENSITIVITIES** 

Docket No.: 279.312US2

Filed: June 24, 2003

Examiner: Carl H. Layno

Customer No.: 21186

Commissioner for Patents

Attn: MAIL STOP ISSUE FEE

P.O. Box 1450

Alexandria, VA 22313-1450

Serial No.: 10/608,518

Due Date: March 7, 2007

Group Art Unit: 3766

Confirmation No.: 9319

**Notice of Allowance Date:** 

December 7, 2006

We are transmitting herewith the attached:

 $\underline{X}$  A check in the amount of \$1400.00 to cover the Large Entity Issue Fee Payment.

 $\underline{X}$  A check in the amount of \$3.00 to cover the Extra Patent Copies Fee (1 copy).

X Issue Fee Transmittal (Form PTOL-85).

X A check in the amount of \$300.00 to cover the Publication Fee Payment.

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SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number: 21186

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JKP:CMG:kms

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail. in an envelope addressed to: Commissioner for Patents, Attn – MAIL STOP ISSUE FEE. P.O. Box 1450, Alexandria, VA 22313-1450, on

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Signature